Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Zone Project Division

Name of Work: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work								
1	Removing & Refixing stone slabs of drains and pointing in C.M (1:3) (Page No 27., I.No.5.33 of KPWD S.R 2018-19).								
	Basic rate	105.00							
	6% AW	6.30							
	Sub Total	111.30							
	Drain Slab								
	Varadarajaswamy Layout	2	120.00	1.50		360.00			
	Varadaraj anagara	2	100.00	1.50		300.00			
	Muniswamappa	2	80.00	1.50		240.00			
	Ramachandrapura	2	110.00	1.50		330.00			
	Kuvempunagara	2	140.00	1.50		420.00			
	Singapura Village	2	70.00	1.50		210.00			
	Gangammanagudi Surrounding	2	90.00	1.50		270.00			
	Balaji Layout	2	60.00	1.50		180.00			
	Raghavendra Colony	2	100.00	1.50		300.00			
	Teachers Layout	2	130.00	1.50		390.00			
						3000.00			
	Deduct 40% damaged/missing					1200.00			
	Consider 40%					1200.00			
						1200.00	**Sqm**	**111.30**	**133560.00**
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (I No-								
	Basic rate	130.00							
	6% AW	7.80							
	Sub Total	137.80							
	load unloading 15km lead & lift	95.40							
	Sub Total	233.20							
	Desilt								
	Varadarajaswamy Layout	2	120.00	0.40	0.45	43.20			
	Varadaraj anagara	2	100.00	0.40	0.45	36.00			
	Muniswamappa	2	80.00	0.40	0.45	28.80			
	Ramachandrapura	2	110.00	0.40	0.45	39.60			
	Kuvempunagara	2	140.00	0.40	0.45	50.40			
	Singapura Village	2	70.00	0.40	0.45	25.20			
	Gangammanagudi Surrounding	2	90.00	0.40	0.45	32.40			
	Balaji Layout	2	60.00	0.40	0.45	21.60			
	Raghavendra Colony	2	100.00	0.40	0.45	36.00			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Teachers Layout	2	130.00	0.40	0.45	46.80			
	For Flagging Course								
	Varadarajaswamy Layout	4	120.00	0.20	0.30	28.80			
	Varadaraj anagara	4	100.00	0.20	0.30	24.00			
	Muniswamappa	4	80.00	0.20	0.30	19.20			
	Ramachandrapura	4	110.00	0.20	0.30	26.40			
	Kuvempunagara	4	140.00	0.20	0.30	33.60			
	Singapura Village	4	70.00	0.20	0.30	16.80			
	Gangammanagudi Surrounding	4	90.00	0.20	0.30	21.60			
	Balaji Layout	4	60.00	0.20	0.30	14.40			
	Raghavendra Colony	4	100.00	0.20	0.30	24.00			
	Teachers Layout	4	130.00	0.20	0.30	31.20			
						600.00	**Cum**	**233.20**	**139920.00**
3	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	Basic rate	5422.00							
	6% AW	325.32							
	Sub Total	5747.32							
	For Flagging Course P.C.C								
	Varadarajaswamy Layout	4	120.00	0.25	0.125	15.00			
	Varadaraj anagara	4	100.00	0.25	0.125	12.50			
	Muniswamappa	4	80.00	0.25	0.125	10.00			
	Ramachandrapura	4	110.00	0.25	0.125	13.75			
	Kuvempunagara	4	140.00	0.25	0.125	17.50			
	Singapura Village	4	70.00	0.25	0.125	8.75			
	Gangammanagudi Surrounding	4	90.00	0.25	0.125	11.25			
	Balaji Layout	4	60.00	0.25	0.125	7.50			
	Raghavendra Colony	4	100.00	0.25	0.125	12.50			
	Teachers Layout	4	130.00	0.25	0.125	16.25			
	For Flagging Course Coping								
	Varadarajaswamy Layout	4	120.00	0.15	0.100	7.20			
	Varadaraj anagara	4	100.00	0.15	0.100	6.00			
	Muniswamappa	4	80.00	0.15	0.100	4.80			
	Ramachandrapura	4	110.00	0.15	0.100	6.60			
	Kuvempunagara	4	140.00	0.15	0.100	8.40			
	Singapura Village	4	70.00	0.15	0.100	4.20			
	Gangammanagudi Surrounding	4	90.00	0.15	0.100	5.40			
	Balaji Layout	4	60.00	0.15	0.100	3.60			
	Raghavendra Colony	4	100.00	0.15	0.100	6.00			
	Teachers Layout	4	130.00	0.15	0.100	7.80			
						185.00	**Cum**	**5747.32**	**1063254.20**

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
4	KSRB 5-14.1 : Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4. (P.No-27,I No-5.26.1) solid concrete blocks of size 400x200x200mm								
	Basic rate	962.00							
	6% AW	57.72							
	Sub Total	1019.72							
	For Flagging Course Coping								
	Varadarajaswamy Layout	4	120.00		0.40	192.00			
	Varadaraj anagara	4	100.00		0.40	160.00			
	Muniswamappa	4	80.00		0.40	128.00			
	Ramachandrapura	4	110.00		0.40	176.00			
	Kuvempunagara	4	140.00		0.40	224.00			
	Singapura Village	4	70.00		0.40	112.00			
	Gangammanagudi Surrounding	4	90.00		0.40	144.00			
	Balaji Layout	4	60.00		0.40	96.00			
	Raghavendra Colony	4	100.00		0.40	160.00			
	Teachers Layout	4	130.00		0.40	208.00			
						1600.00	**Sqm**	**1019.72**	**1631552.00**
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.(7.5cms thick)(I No-5.31.1,P No-27)								
	Basic rate	700.00							
	6% AW	42.00							
	Sub Total	742.00							
	Drain Slab								
	Consider frm item 1					1200.00			
						1200.00	**Sqm**	**742.00**	**890400.00**
6	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Basic rate	2337.00							
	Top Covering Slab								
	Varadarajaswamy Layout	2	120.00	0.90		216.00			
	Varadaraj anagara	2	100.00	0.90		180.00			
	Muniswamappa	2	80.00	0.90		144.00			
	Ramachandrapura	2	110.00	0.90		198.00			
	Kuvempunagara	2	140.00	0.90		252.00			
	Singapura Village	2	70.00	0.90		126.00			
	Gangammanagudi Surrounding	2	90.00	0.90		162.00			
	Balaji Layout	2	60.00	0.90		108.00			
	Raghavendra Colony	2	100.00	0.90		180.00			
	Teachers Layout	2	130.00	0.90		234.00			
						1800.00			
	Deduct 20%					360.00			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	missing slabs	104	0.60	0.90		56.16			
						1496.16	**Sqm**	**2337.00**	**3496525.92**
7	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete, 10 cms thick. Page No. 27/ Item No. 5.31.2 PWD SR 2018-								
	Basic rate	912.00							
	6% AW	54.72							
	Sub Total	966.72							
	Frm item 6					360.00			
						360.00	**Sqm**	**966.72**	**348019.20**
8	KSRB 5-8.2 : Providing two line dressing to granite stone slab / granite stone masonry as per specifications. KBS 5.1.13. Page No. 26/ Item No. 5.18 PWD SR 2018-19								
	Basic rate	1495.00							
	6% AW	89.70							
	Sub Total	1584.70							
	Frm item 6					360.00			
						360.00	**Sqm**	**1584.70**	**570492.00**
9	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	Basic rate	408.00							
	6% AW	24.48							
	Sub Total	432.48							
	Varadarajaswamy Layout	2	120.00			240.00			
	Varadaraj anagara	2	100.00			200.00			
	Muniswamappa	2	80.00			160.00			
	Ramachandrapura	2	110.00			220.00			
	Kuvempunagara	2	140.00			280.00			
	Singapura Village	2	70.00			140.00			
	Gangammanagudi Surrounding	2	90.00			180.00			
	Balaji Layout	2	60.00			120.00			
	Raghavendra Colony	2	100.00			200.00			
	Teachers Layout	2	130.00			260.00			
						2000.00			
						4444.00	**Nos**	**432.48**	**1921941.12**
10	KSRB 15-18.3 : Providing and applying enamel metal paint one coat (excluding priming coat) on previously painted steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. (P.No.123, I.No.15.75 of PW,								
	Basic rate	61.00							
	6% AW	3.66							
	Sub Total	64.66							
	Varadarajaswamy Layout	2	120.00		0.450	108.00			
	Varadaraj anagara	2	100.00		0.450	90.00			
	Muniswamappa	2	80.00		0.450	72.00			
	Ramachandrapura	2	110.00		0.450	99.00			
	Kuvempunagara	2	140.00		0.450	126.00			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Singapura Village	2	70.00		0.450	63.00			
	Gangammanagudi Surrounding	2	90.00		0.450	81.00			
	Balaji Layout	2	60.00		0.450	54.00			
	Raghavendra Colony	2	100.00		0.450	90.00			
	Teachers Layout	2	130.00		0.450	117.00			
						900.00	**Sqm**	**64.66**	**58194.00**
B	**RoadWork**								
11	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (Page No140., I.No.18.47 of KPWD S.R 2018-19).								
	Basic rate	899.00							
	6% AW	53.94							
	Sub Total	952.94							
	load unloading 15km lead & lift	95.40							
	Sub Total	1048.34							
	Varadarajaswamy Layout	1	150.00	4.30	0.200	129.00			
	Varadaraj anagara	1	155.00	4.20	0.200	130.20			
	Muniswamappa	1	120.00	4.80	0.200	115.20			
	Ramachandrapura	1	100.00	4.10	0.200	82.00			
	Kuvempunagara	1	140.00	4.00	0.200	112.00			
	Singapura Village	1	140.00	3.80	0.200	106.40			
	Gangammanagudi	1	135.00	3.60	0.200	97.20			
		1	120.00	4.00	0.200	96.00			
		1	160.00	3.90	0.200	124.80			
		1	145.00	3.60	0.200	104.40			
		1	120.00	4.00	0.200	96.00			
		1	92.00	3.50	0.200	64.40			
	Balaji Layout	1	155.00	3.80	0.200	117.80			
	Raghavendra Colony	1	130.00	4.10	0.200	106.60			
	Teachers Layout	1	140.00	4.30	0.200	120.40			
						1602.40	**Cum**	**1048.34**	**1679860.02**
12	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3 (Page No147, I.No.19.64 of KPWD S.R 2018-19).								
	Basic rate	6.00							
	6% AW	0.36							
	Sub Total	6.36							
	Varadarajaswamy Layout	1	150.00	4.30		645.00			
	Varadaraj anagara	1	155.00	4.20		651.00			
	Muniswamappa	1	120.00	4.80		576.00			
	Ramachandrapura	1	100.00	4.10		410.00			
	Kuvempunagara	1	140.00	4.00		560.00			
	Singapura Village	1	140.00	3.80		532.00			
	Gangammanagudi	1	135.00	3.60		486.00			
		1	120.00	4.00		480.00			
		1	160.00	3.90		624.00			
		1	145.00	3.60		522.00			
		1	120.00	4.00		480.00			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
		1	92.00	3.50		322.00			
	Balaji Layout	1	155.00	3.80		589.00			
	Raghavendra Colony	1	130.00	4.10		533.00			
	Teachers Layout	1	140.00	4.30		602.00			
						8012.00	**Sqm**	**6.36**	**50956.32**
13	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. (Page No 153., I.No.20.5 of KPWD S.R 2018-19).								
	Basic rate	1882.00							
	6% AW	112.92							
	Sub Total	1994.92							
	Varadarajaswamy Layout	1	150.00	1.50	0.300	67.50			
	Varadaraj anagara	1	155.00	1.50	0.300	69.75			
	Muniswamappa	1	120.00	1.50	0.300	54.00			
	Ramachandrapura	1	100.00	1.50	0.300	45.00			
	Kuvempunagara	1	140.00	1.50	0.300	63.00			
	Singapura Village	1	140.00	1.50	0.300	63.00			
	Balaji Layout	1	155.00	1.50	0.300	69.75			
	Raghavendra Colony	1	130.00	1.50	0.300	58.50			
	Teachers Layout	1	140.00	1.50	0.300	63.00			
						553.50	**Cum**	**1994.92**	**1104188.22**
14	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.13/I.4.2) PWD SR 2018-19								
	Basic rate	5194.00							
	6% AW	311.64							
	Sub Total	5505.64							
	For Kerb								
	Varadarajaswamy Layout	2	120.00	0.25	0.150	9.00			
	Varadaraj anagara	2	100.00	0.25	0.150	7.50			
	Muniswamappa	2	80.00	0.25	0.150	6.00			
	Ramachandrapura	2	110.00	0.25	0.150	8.25			
	Kuvempunagara	2	140.00	0.25	0.150	10.50			
	Singapura Village	2	70.00	0.25	0.150	5.25			
	Gangammanagudi Surrounding	2	90.00	0.25	0.150	6.75			
	Balaji Layout	2	60.00	0.25	0.150	4.50			
	Raghavendra Colony	2	100.00	0.25	0.150	7.50			
	Teachers Layout	2	130.00	0.25	0.150	9.75			
	For Road								
	Varadarajaswamy Layout	1	150.00	4.30	0.150	96.75			
	Varadaraj anagara	1	155.00	4.20	0.150	97.65			
	Muniswamappa	1	120.00	4.80	0.150	86.40			
	Ramachandrapura	1	100.00	4.10	0.150	61.50			
	Kuvempunagara	1	140.00	4.00	0.150	84.00			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Singapura Village	1	140.00	3.80	0.150	79.80			
	Gangammanagudi	1	135.00	3.60	0.150	72.90			
		1	120.00	4.00	0.150	72.00			
		1	160.00	3.90	0.150	93.60			
		1	145.00	3.60	0.150	78.30			
		1	120.00	4.00	0.150	72.00			
		1	92.00	3.50	0.150	48.30			
	Balaji Layout	1	155.00	3.80	0.150	88.35			
	Raghavendra Colony	1	130.00	4.10	0.150	79.95			
	Teachers Layout	1	140.00	4.30	0.150	90.30			
						1276.80	**Cum**	**5505.64**	**7029601.15**
15	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46um,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum.(P.No.176, I.No. 22.6.1) PWD SR 2018-19								
	Basic rate	4916.00							
	6% AW	294.96							
	Sub Total	5210.96							
	Varadarajaswamy Layout	1	150.00	4.30	0.150	96.75			
	Varadaraj anagara	1	155.00	4.20	0.150	97.65			
	Muniswamappa	1	120.00	4.80	0.150	86.40			
	Ramachandrapura	1	100.00	4.10	0.150	61.50			
	Kuvempunagara	1	140.00	4.00	0.150	84.00			
	Singapura Village	1	140.00	3.80	0.150	79.80			
	Gangammanagudi	1	135.00	3.60	0.150	72.90			
		1	120.00	4.00	0.150	72.00			
		1	160.00	3.90	0.150	93.60			
		1	145.00	3.60	0.150	78.30			
		1	120.00	4.00	0.150	72.00			
		1	92.00	3.50	0.150	48.30			
	Balaji Layout	1	155.00	3.80	0.150	88.35			
	Raghavendra Colony	1	130.00	4.10	0.150	79.95			
	Teachers Layout	1	140.00	4.30	0.150	90.30			
						1201.80	**Cum**	**5210.96**	**6262531.73**
								Total Construction Cost	**26380995.88**
								GST 12.00%	**3165719.51**
								DPR & PMC Charges	**453000.00**
								Total	**29999715.38**
								Miscellaneous & Rounding off	**284.62**
								GRAND TOTAL	**30000000.00**

Administrative Approval
Accorded For 25.50 Lakhs
Head of A/C 12-35-52
CER NO : 52 Dt 08/3/19
E.E. (Project)

Technical Sanction
Accorded For 25.50 Lakhs
Head of A/C 12-35-52
CER NO : 263 Dt: 13/12/19
TA CE (YNK)

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019 and Data Rates.

Transheights Consultants Pvt. Ltd. Bangalore

JE

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Executive Engineer 12/12/19
Project Division
Yelahanka Zone
BBMP, Bangalore-92